



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

TKO Doors, Div. of 4Front Engineered Solutions, Inc.
N56 W24701 N. Corporate Circle
Sussex, WI 53089

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model TW WL Dock Plastic Sectional Garage Door up to 10'-0" Wide x 10'-0" High

APPROVAL DOCUMENT: Drawing No. 15-2399, titled "Fiberglass Dock Doors TW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/06/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 13-0521.04 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
12/03/2015

NOA No 15-0916.09
Expiration Date: August 14, 2019
Approval Date: December 10, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **15-2399**, titled "Fiberglass Dock Doors TW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 05/06/2013, with last revision dated 05/06/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "Submitted under NOA # 13-0521.04"

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC TAS 202-94
Along with marked-up drawings and installation diagram of Welter Weight Doors, prepared by Architectural Testing, Inc., Test Report No. **D5680.01-602-18**, dated 04/07/2014, signed and sealed by Shawn G. Collins, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC TAS 202-94
Along with marked-up drawings and installation diagram of Welter Weight Doors, prepared by Architectural Testing, Inc., Test Report No. **C3614.01-602-18**, dated 03/28/2013, signed and sealed by Shawn G. Collins, P.E.
3. Test report on Self-ignition Temperature per ASTM D1929, Smoke Density Rating per ASTM D2843 and Rate of Burn per ASTM D635 of various plastic door components, prepared by Architectural Testing, Inc., Test Report No. **C2850.01-106-18**, dated 11/21/2012, signed and sealed by Gary T. Hartman, P.E.

C. CALCULATIONS

1. Jamb anchor calculations prepared by Engineering Express, dated 05/05/2015, signed and sealed by Frank L. Bennardo, P.E.

"Submitted under NOA # 13-0521.04"
2. Jamb anchor calculations prepared by Engineering Express, dated 05/14/2013 and 05/22/2014, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No 15-0916.09

Expiration Date: August 14, 2019

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E. MATERIAL CERTIFICATIONS “Submitted under NOA # 13-0521.04”

1. Test report on Flame Spread Index and Smoke Developed Index per UL-723 of XEPS foam insulation, Test Report No. **BRYX.R3573** dated 07/12/2010.

F. STATEMENTS

1. Statement letter of code conformance with the 5th edition (2014) FBC, issued by Engineering Express, dated 05/04/2015, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 05/04/2015, signed and sealed by Frank L. Bennardo, P.E.


12/03/2015

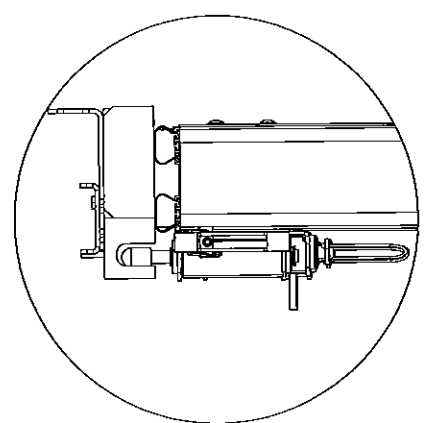
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 15-0916.09

Expiration Date: August 14, 2019
Approval Date: December 10, 2015

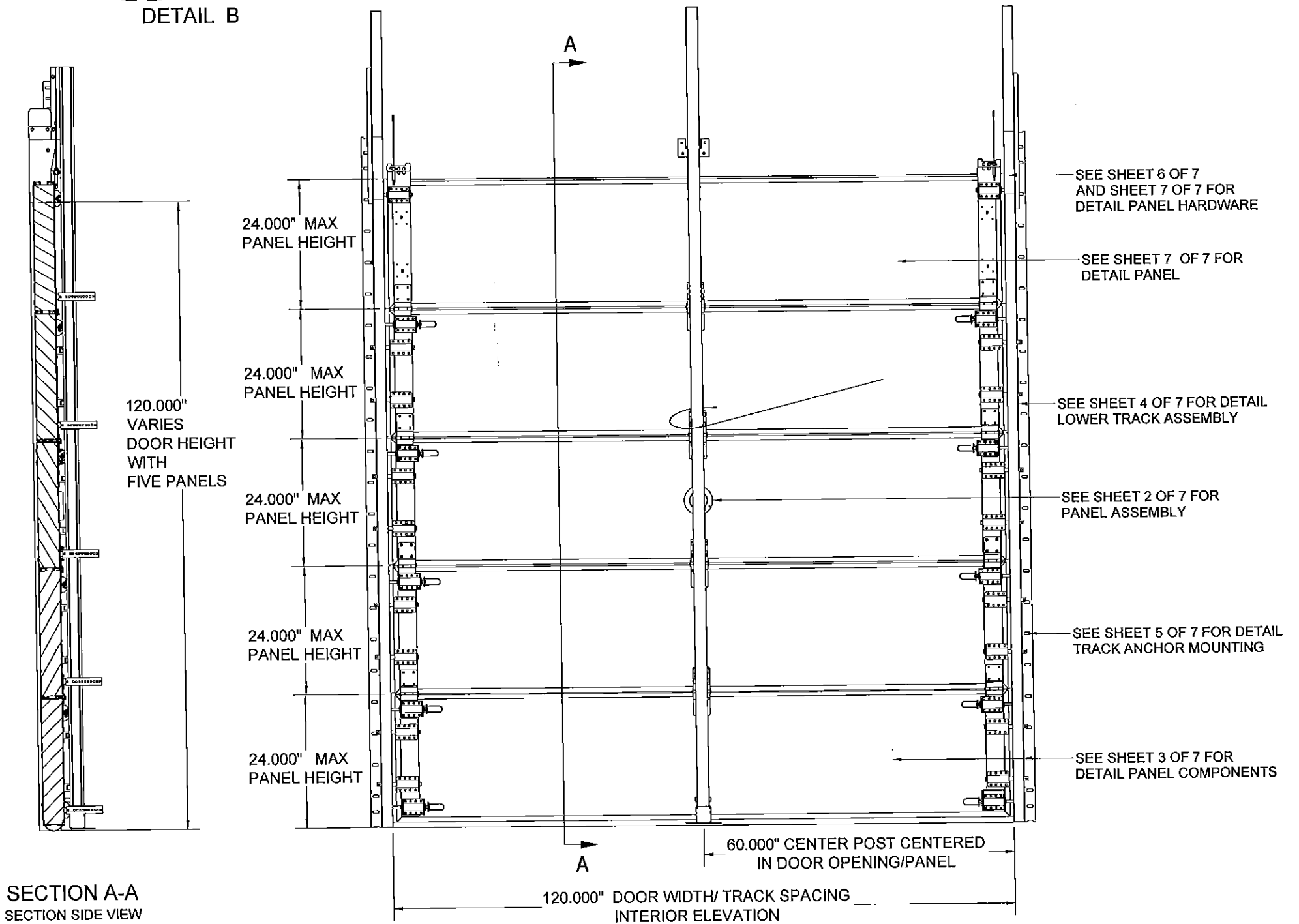
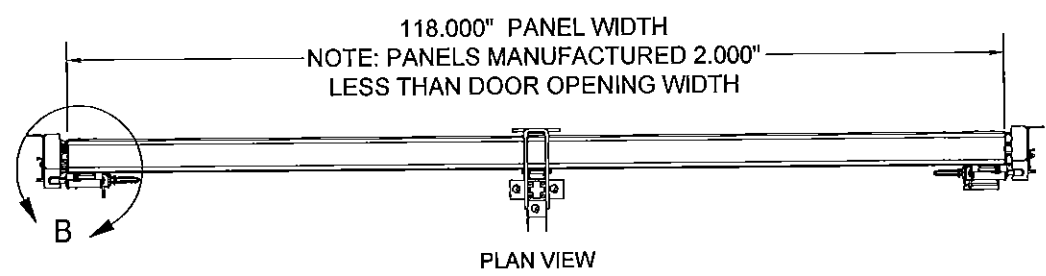
05/06/2015 - 11:31am rickn V:\Projects\15-2399 Fiberglass Dock Door TW WL- NOA - Update 13-0521.04 (13-TKO-02) for 2014-Project\WP15-2399b Thermal Weight Sectional Door (NOA).dwg

TW WL DOCK DOORS

LARGE MISSILE IMPACT RESISTANT



DETAIL B



GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND CHAPTER 1620 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI U.O.N.
8. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED.
9. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 120", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 24".
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.

ALLOWABLE
DESIGN PRESSURES

+52.0 PSF
-52.0 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-2399-02
Expiration Date 05/14/2019
By *[Signature]*
Miami Dade Product Control

FRANK L. BENNARDO, P.E.
PE0046549

05/06/2015

FLORIDA PROFESSIONAL ENGINEER

ENGINEERING EXPRESS, INC.
160 SW 12th Avenue, Suite 100
Deerfield Beach, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM

CERT OF AUTH #8885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
TW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	05/06/13
REV. PER COMMENTS	KL	FLB	05/16/14
REV. (FBC UPDATE)	RWN	CSL	05/06/15

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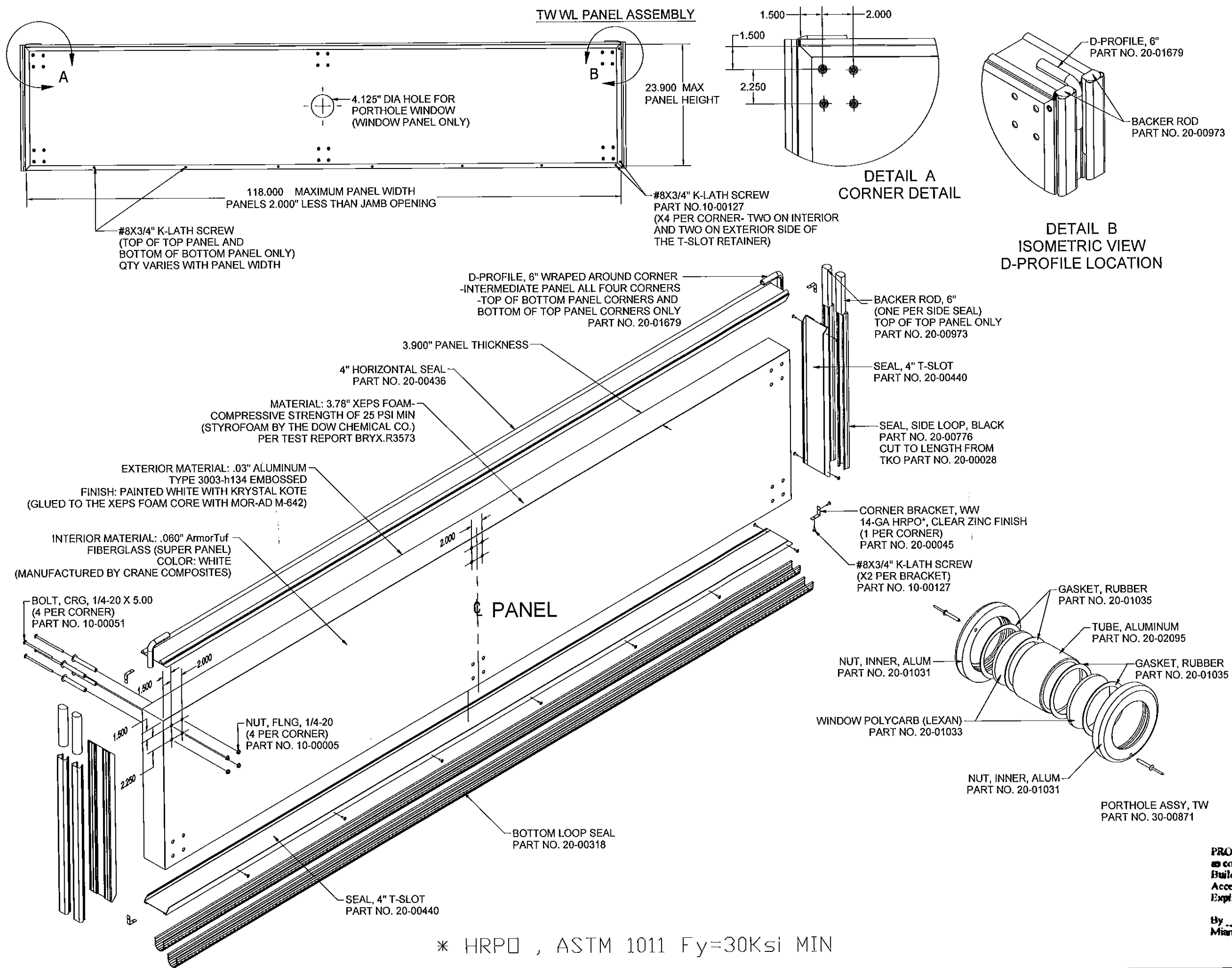
15-2399

SCALE: -

PAGE DESCRIPTION:

1 OF 7

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05/06/2015 - 11:31am rickn



* HRPO , ASTM 1011 Fy=30Ksi MIN

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0916-09
Expiration Date 03/14/2019
By *[Signature]*
Miami Dade Product Control

FRANK L. BENNARDO, P.E.
PE0046549

FRANK L. BENNARDO, P.E., INC. INNOVATION
CERT OF AUTH #9885

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 46549

ENGINEERING EXPRESS
160 SW 12th Avenue, Suite 106
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WWW.ENGEXP.COM

05/06/2015

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
TW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
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REV (PBC UPDATE)	RWN	CSL	05/06/15

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15-2399

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~~05/06/2015~~

EXPRESS ENGINEERING
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DEERFIELD BEACH, FL 33442
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FIBERGLASS DOCK DOORS
TW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	05/06/13
REV. PER COMMENTS	KL	FLB	05/19/14
REV (FBC UPDATE)	RWN	CSL	05/06/15
-	-	-	-
-	-	-	-

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Building Code
Acceptance No 15-0916.09
Expiration Date 08/14/2019
By [Signature]
Miami-Dade Product Control

15-2399

SCALE: 100

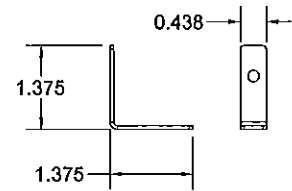
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3

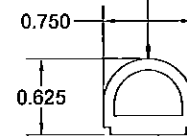
3

TW WL PANEL COMPONENTS

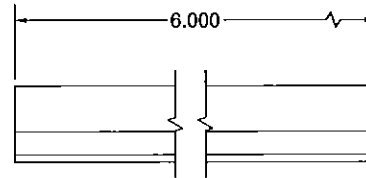


BRACKET, CORNER L, WW
PART NO. 20-00045
14-GA HRPO**, CLEAR ZINC FINISH
**HOT-ROLLED STEEL, PICKLED & OILED

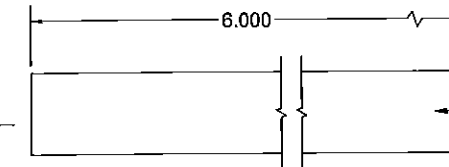
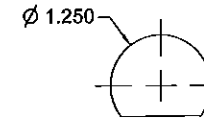
EPDM FOAM RUBBER- OZONE RESISTANT
(MANUFACTURED BY ACTION INDUSTRIES/
TORSION SOURCE ACE EXTRUSION)



BT '3M' ACRYLIC TAPE SYSTEM

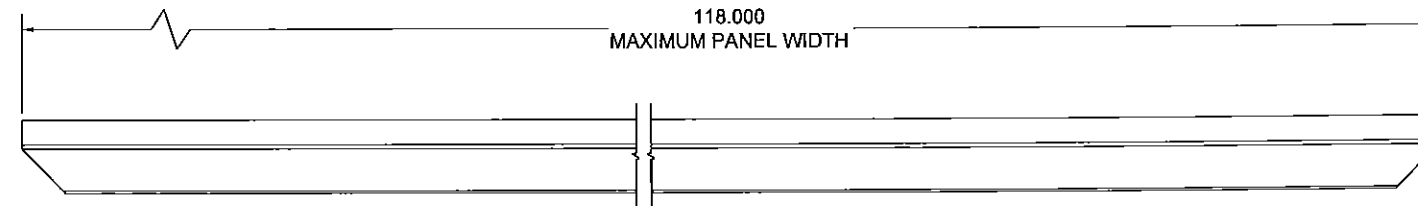
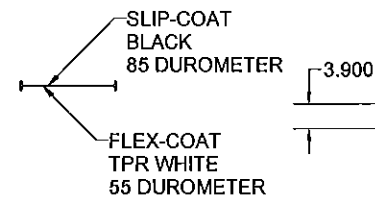
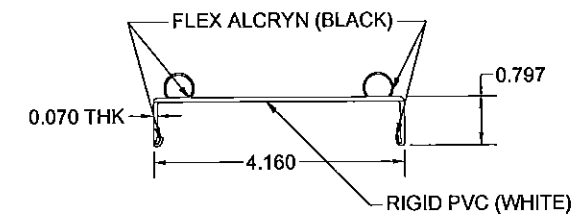


D-PROFILE, TRIM-LOK PART NO. 20-01679
(SEE SHEET 2 OF 7 FOR LOCATION)

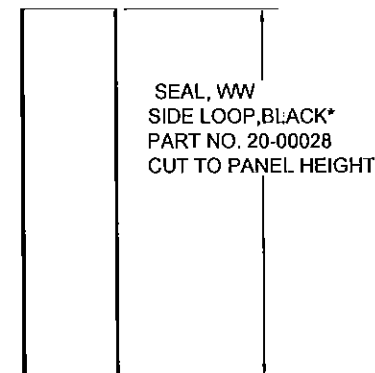


1-1/4" X 6.000" BACKER ROD
PART NO. 20-00973

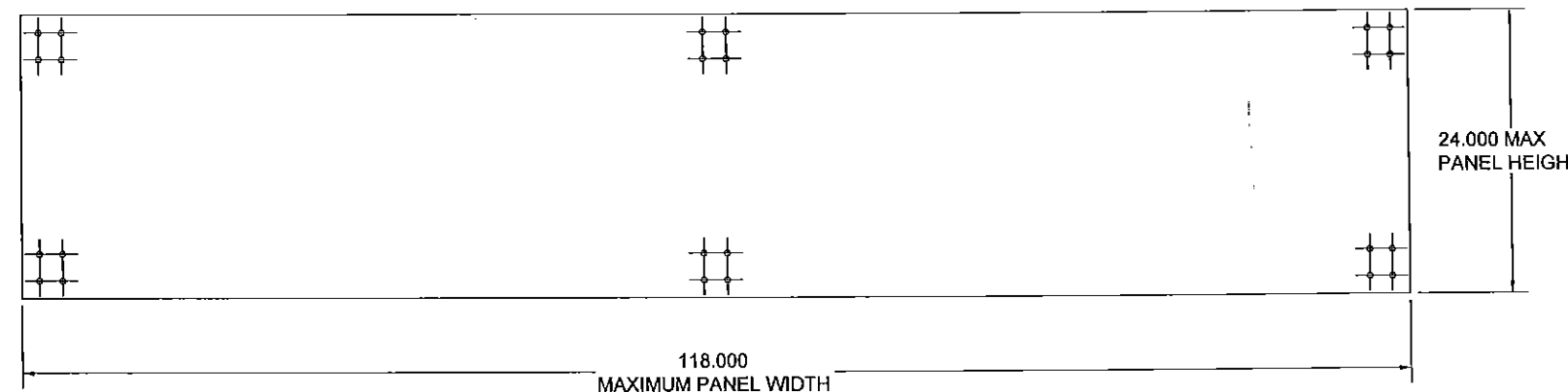
RETICULATED CLOSED CELL
POLYETHYLENE FOAM, GREY.



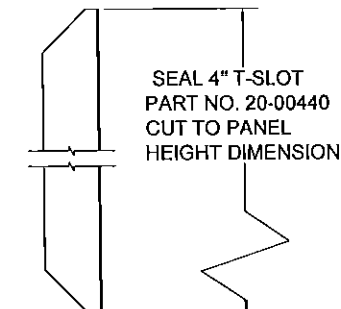
SEAL, 4" HORIZONTAL WHITE PART NO. 20-00436
(MANUFACTURED BY HI-TECH)



SEAL, WW
SIDE LOOP, BLACK*
PART NO. 20-00028
CUT TO PANEL HEIGHT

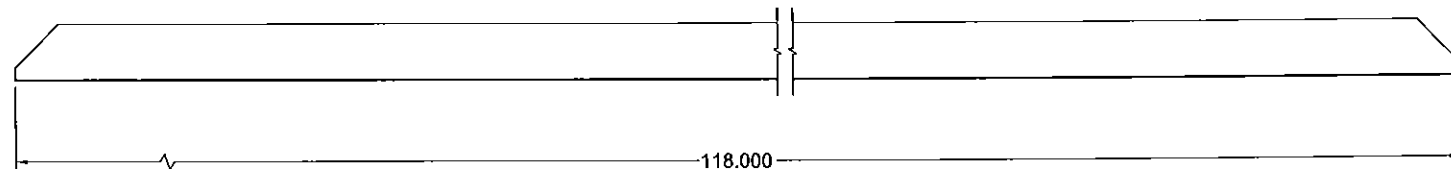


24.000 MAX
PANEL HEIGHT

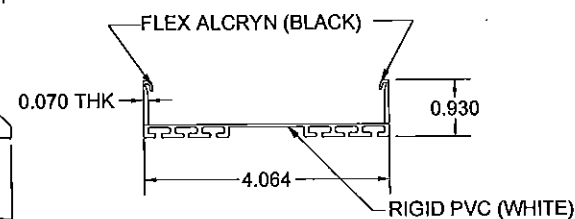


SEAL 4" T-SLOT
PART NO. 20-00440
CUT TO PANEL
HEIGHT DIMENSION


***NOTE:**
-SEAL, WW, SIDE LOOP, 24-3/4"
PART NO. 20-00776
INTERMEDIATE PANEL
-SEAL, WW, SIDE LOOP, 25-1/2"
PART NO. 20-00777
BOTTOM PANEL ONLY



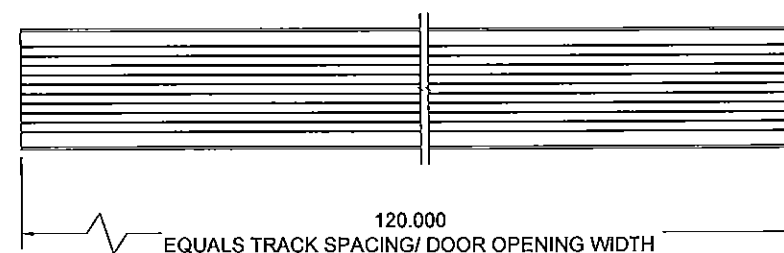
SEAL, 4" T-SLOT WHITE PART NO. 20-00440
(MANUFACTURED BY HI-TECH)



EPDM
(ETHYLENE PROPYLENE DIENE MONOMER)
BOTTOM LOOP SEAL PART NO. 20-00238
CUT TO DOOR OPENING WIDTH



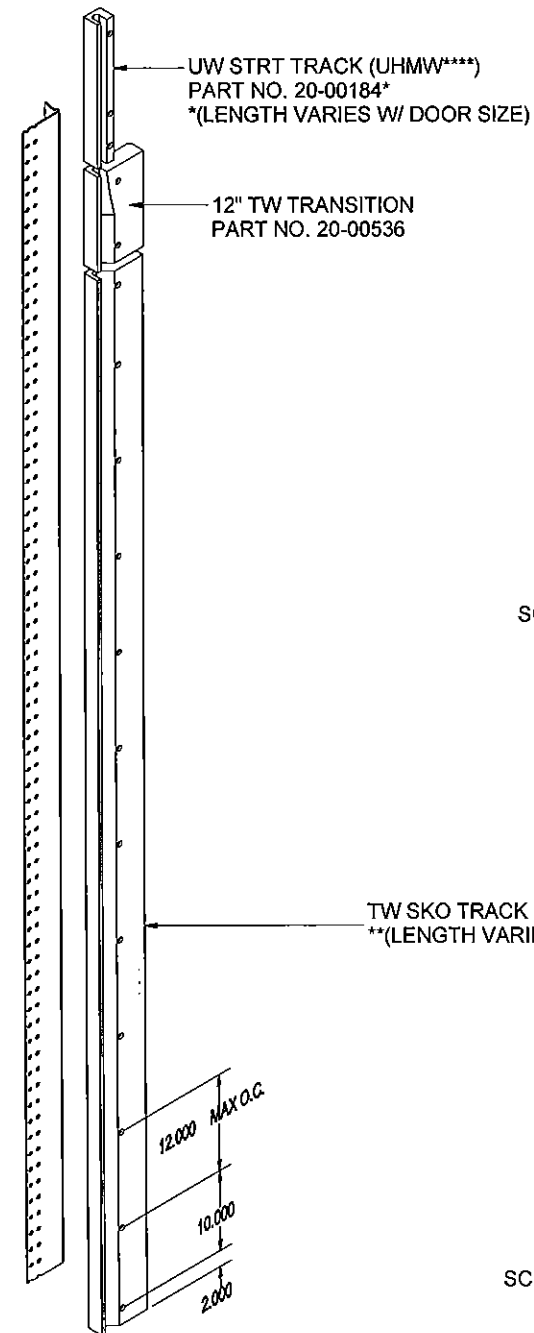
3.940



120.000
— EQUALS TRACK SPACING/ DOOR OPENING WIDTH

V:\Projects\15-2399 Fiberglass Dock Door TW WL-NOA - Update 13-0521.04 (13-TKO-02) for 2014-Project\WP15-2399b Thermal Weight Sectional Door (NOA).dwg 05/06/2015 - 11:31am rick

LEFT HAND SIDE TRACK



STANDARD MOUNT

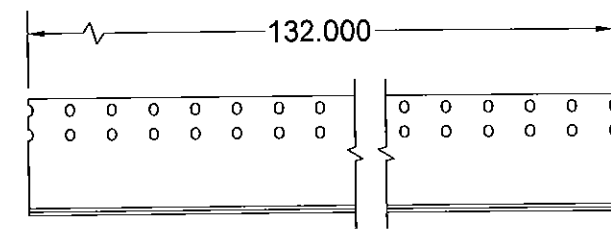
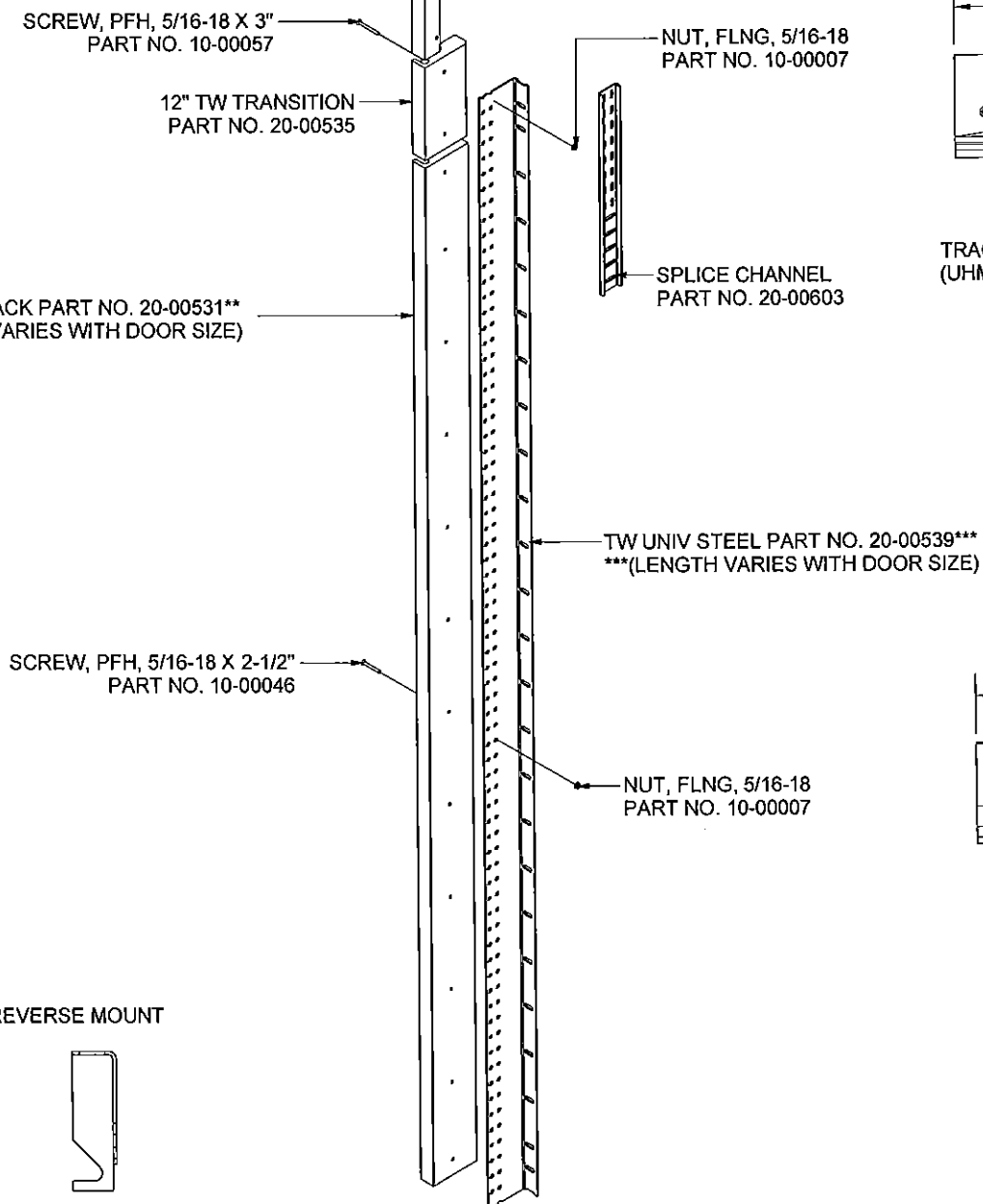


REVERSE MOUNT

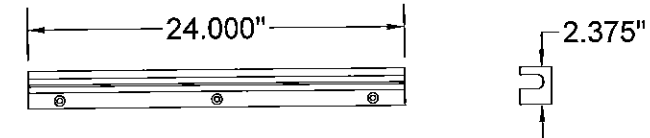


TW WL LOWER TRACK ASSEMBLY

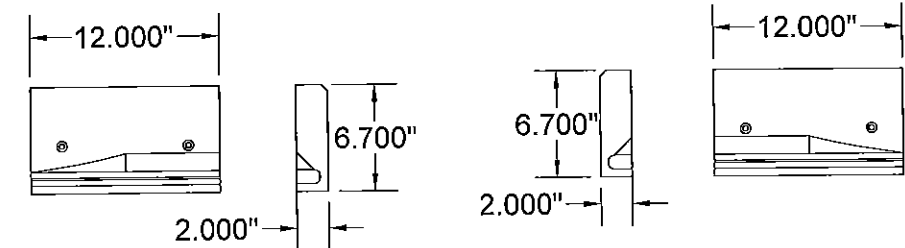
RIGHT HAND SIDE TRACK



TRACK, TW UNIV STL 132" (8-GA ASTM A653 G90)(Fy=35 Ksi, MIN)
PART NO. 20-00539
TRACK, TW UNIV STL 132" S/S (8-GA TYPE 304 SS)(Fy=30 Ksi, MIN)
PART NO. 20-02249

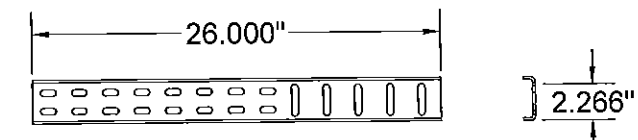


UW STRT TRACK (UHMW****)
PART NO. 20-00184

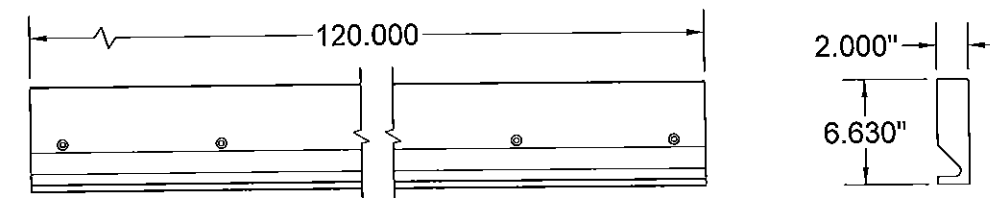


TRACK, TW, 12" TRN SKO>STRT LH
(UHMW****) PART NO. 20-00536

TRACK, TW, 12" TRN SKO>STRT RH
(UHMW****) PART NO. 20-00535



SPLICE CHANNEL (8-GA ASTM A653 G90)(Fy=35 Ksi MIN)
PART NO. 20-00603
SPLICE CHANNEL S/S (8-GA TYPE 304 SS)(Fy=30 Ksi, MIN)
PART NO. 20-01083



TRACK, TW, SKO 120" (UHMW****)
PART NO. 20-00531

****UHMW (ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0916.09
Expiration Date 09/14/22
By
Miami Dade Product Control

FRANK L. BENNARDO, P.E.
#PE0046549
05/06/2015
FLORIDA PROFESSIONAL ENGINEERING
No. 46549
ENGINEERING EXPRESS
160 SW 12th Avenue, #105
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0448
WWW.ENGEXP.COM
CERT OF AUTH #9985
A FRANK L. BENNARDO, P.E., INC. INNOVATION

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301
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REV (FRC UPDATE)	RWN	CSL	05/06/15

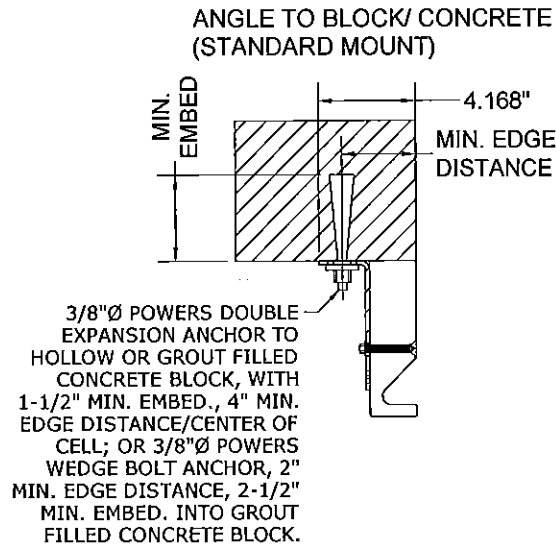
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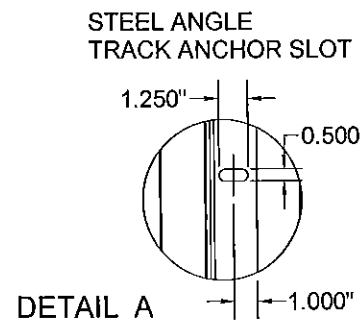
15-2399
SCALE:
PAGE DESCRIPTION:
4 of 7

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05/06/2015 - 11:34am rickn

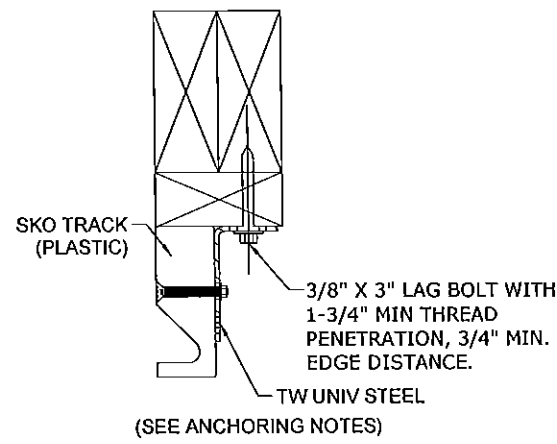
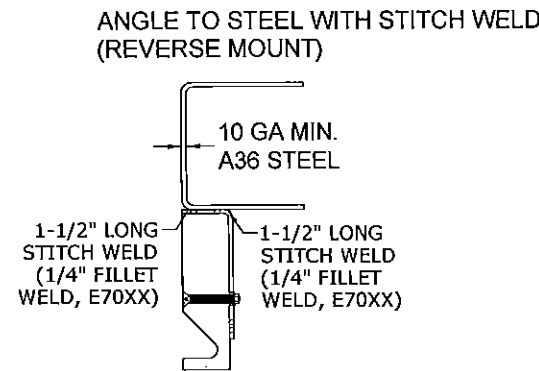
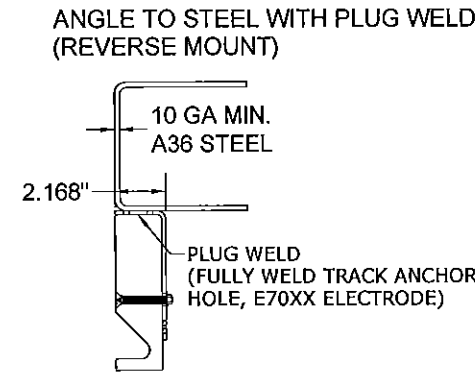
TRACK ANCHOR MOUNTING



(SEE ANCHORING NOTES)

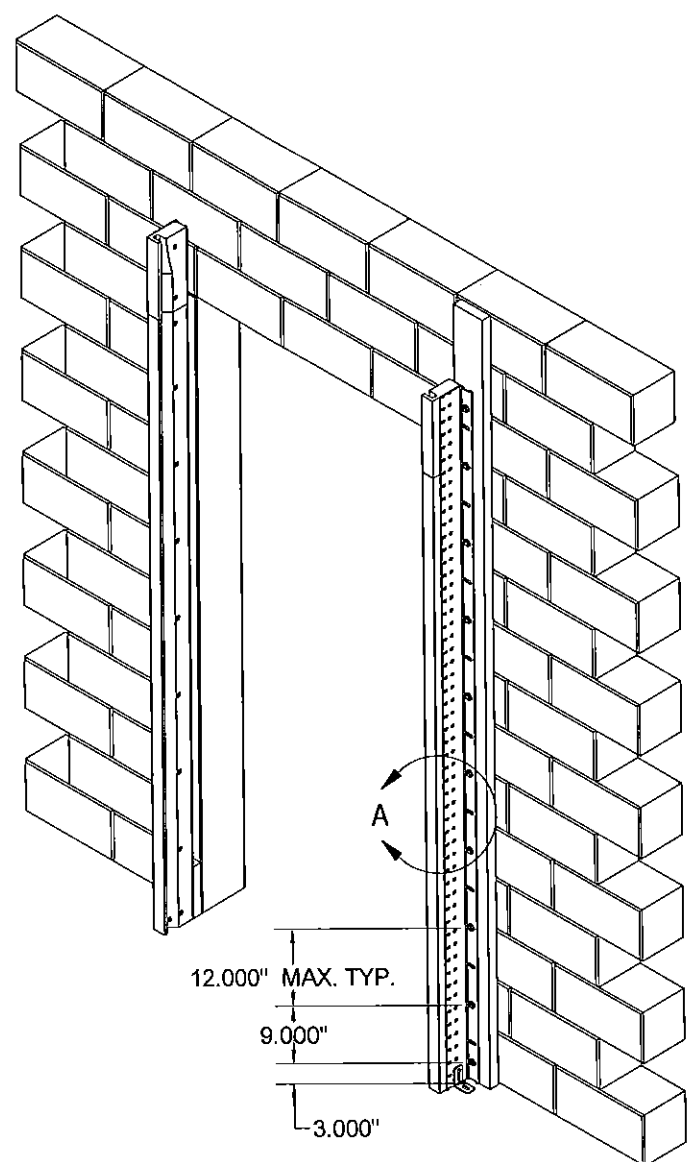


(SEE ANCHORING NOTES)



(SEE ANCHORING NOTES)

TEST MOUNTING ON WOOD



ANCHORING NOTES:

1. THIS SYSTEM SHALL BE ANCHORED WITH ANY OF THE ANCHORING METHODS SHOWN HEREIN, WITH A MINIMUM OF (2) ANCHORS LOCATED 3" AND 12" MAX. FROM THE BOTTOM OF THE TRACK AND 12" O.C. MAX. THEREAFTER.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR DETAIL. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
7. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.

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as complying with the Florida
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Acceptance No 15-0716-09
Expiration Date 05/14/2015
By *[Signature]*
Miami/Trade Product Control

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FIBERGLASS DOCK DOORS
TW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	05/06/13
REV. PER COMMENTS	KL	FLB	05/16/14
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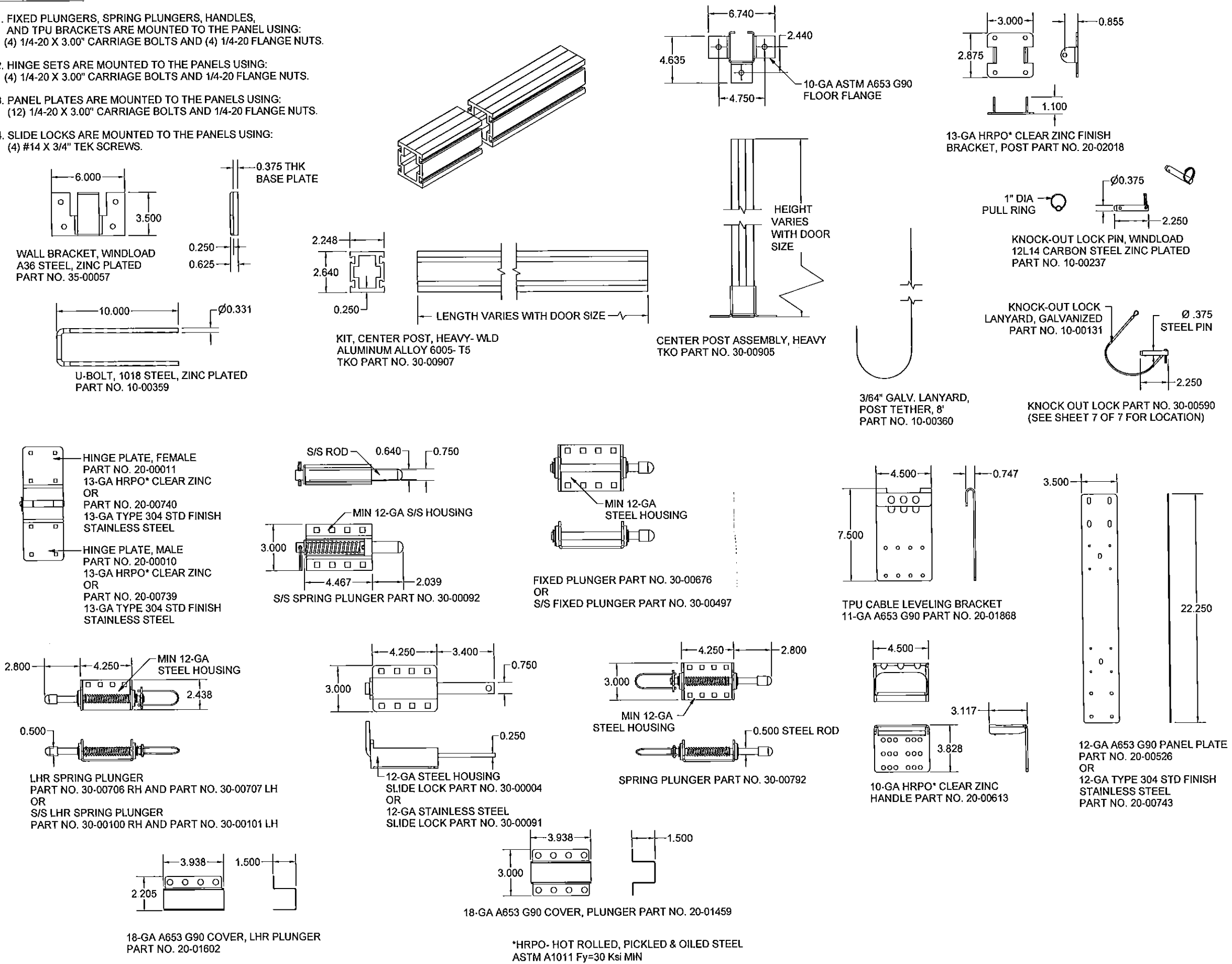
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05/06/2015 - 11:31am
nick

FASTENER NOTE:

- 1. FIXED PLUNGERS, SPRING PLUNGERS, HANDLES, AND TPU BRACKETS ARE MOUNTED TO THE PANEL USING:
(4) 1/4-20 X 3.00" CARRIAGE BOLTS AND (4) 1/4-20 FLANGE NUTS.
- 2. HINGE SETS ARE MOUNTED TO THE PANELS USING:
(4) 1/4-20 X 3.00" CARRIAGE BOLTS AND 1/4-20 FLANGE NUTS.
- 3. PANEL PLATES ARE MOUNTED TO THE PANELS USING:
(12) 1/4-20 X 3.00" CARRIAGE BOLTS AND 1/4-20 FLANGE NUTS.
- 4. SLIDE LOCKS ARE MOUNTED TO THE PANELS USING:
(4) #14 X 3/4" TEK SCREWS.

TW WL PANEL HARDWARE



*HRPO- HOT ROLLED, PICKLED & OILED STEEL
ASTM A1011 Fy=30 Ksi MIN

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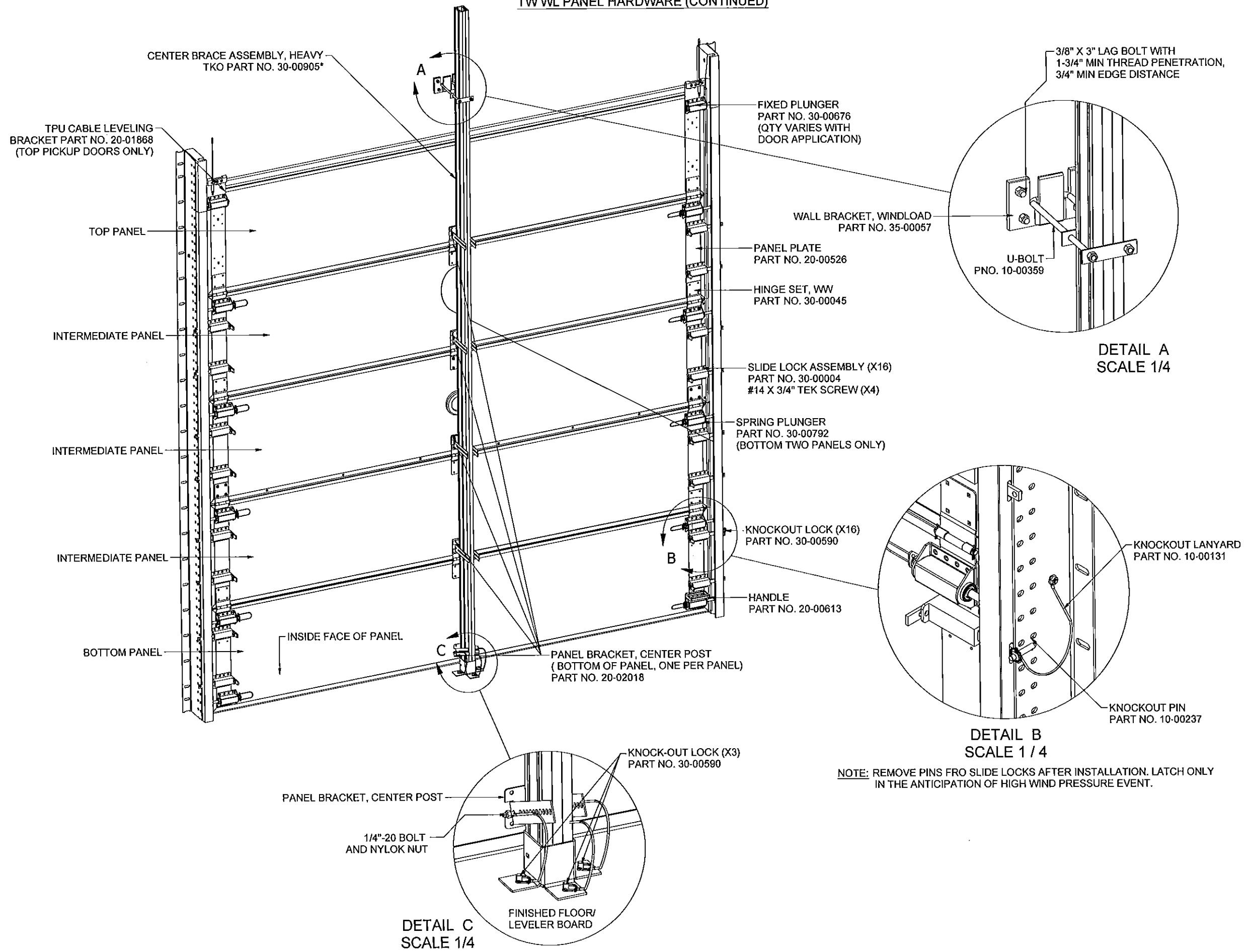
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05/06/2015 - 11:31am rickn

TW WL PANEL HARDWARE (CONTINUED)



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05/06/2015

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